

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
18 March 2004 (18.03.2004)

PCT

(10) International Publication Number
WO 2004/021858 A3

(51) International Patent Classification⁷: A61N 1/18
(21) International Application Number:
PCT/IL2003/000736

(22) International Filing Date:
4 September 2003 (04.09.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
10/237,263 5 September 2002 (05.09.2002) US

(63) Related by continuation (CON) or continuation-in-part (CIP) to earlier application:
US 10/237,263 (CIP)
Filed on 5 September 2002 (05.09.2002)

(71) Applicant (for all designated States except US): IMPULSE DYNAMICS NV [NL/NL]; 3 L.B. Smithplein, Curacao, Netherlands Antilles (AN).

(72) Inventors; and

(75) Inventors/Applicants (for US only): HAREL, Tami [IL/IL]; 22 Harel Street, 34555 Haifa (IL). POLICKER, Shai [IL/IL]; 42810 Moshav Tzur Moshe (IL). KHAWALEH, Radwan [IL/IL]; P.O. BOX 5077, 20200 Shfar'am (IL). MIKA, Yuval [IL/IL]; 26 Inbar Street, 30900 Zichron Yaacov (IL). GLASBERG, Offer [IL/IL]; 5 Frug Street, 32447 Haifa (IL). GROSSMAN, Aharon [IL/IL]; P.O. Box 9753, 31097 Haifa (IL).

(74) Agents: FENSTER, Paul et al.; Fenster & Company, Intellectual Property 2002 LTD., P. O. BOX 10256, 49002 Petach Tikva (IL).

(81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

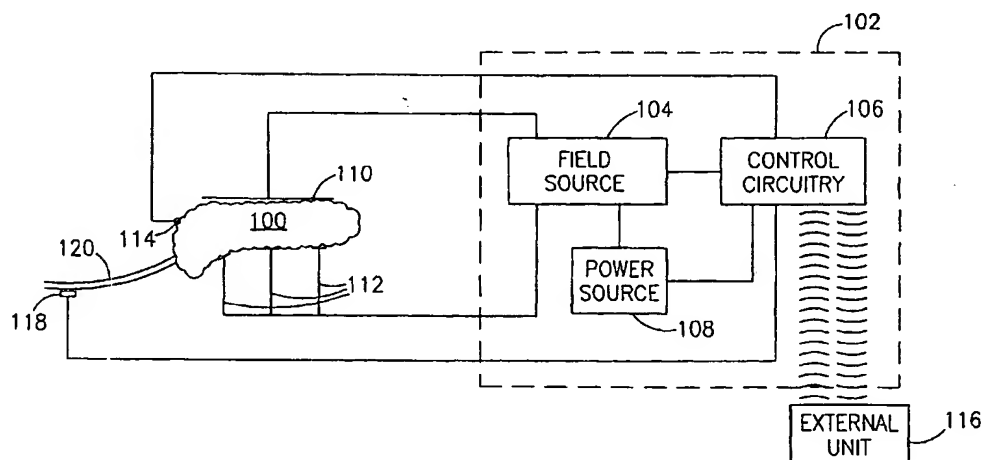
Published:

— with international search report
— before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

(88) Date of publication of the international search report:
25 November 2004

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: BLOOD GLUCOSE LEVEL CONTROL



(57) Abstract: A method of glucose level control, comprising providing at least one electrode (110, 112) adapted to apply an electric field to a pancreas (100); and applying an electric field to the pancreas using said at least one electrode such that blood glucose levels are significantly reduced and blood insulin levels are not significantly increased.

WO 2004/021858 A3

INTERNATIONAL SEARCH REPORT

International application No.

PCT/IL03/00736

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : A61N 1/18

US CL : 607/40

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
U.S. : 607/40

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5,031,617 A (KLETTNER) 16 July 1991, see abstract.	1

☐ Further documents are listed in the continuation of Box C.

See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"B" earlier application or patent published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T"

later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X"

document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y"

document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&"

document member of the same patent family

Date of the actual completion of the international search

05 February 2004 (05.02.2004)

Date of mailing of the international search report

13 SEP 2004

Name and mailing address of the ISA/US

Mail Stop PCT, Attn: ISA/US
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

Facsimile No. (703)305-3230

Authorized officer

Jeffrey R. Jasirzab

Telephone No. (703) 308-0858